

7.2 MW_p + 5.5 MWh PV PLANT

SOLAR PLUS STORAGE POWERING AT NIGHT



SG3125HV-30

SUNTEC CHOSE SUNGROW'S LIQUID COOLING ENERGY STORAGE SYSTEM FOR STORING THE EXCESS ENERGY PRODUCED BY THEIR 7.2 MW_p SOLARPARK

The 5.5 MW_{AC} PV park has been built on an adequate private land in which grid was already available for the connection and delivery of the energy produced on-site.

The grid feed is limited to 3.5 MW, so half of the 7.2 MW_p of PV power generated is fed into the grid during the day and half is stored using Sungrow's Powertitan BESS. At night, the stored energy is fed back into the grid, taking advantage of the convenient energy prices during the dark hours.

The highly integrated technical equipment was delivered pre-assembled to the terrain to save installation costs. Grid connection happened soon after.



ST2752UX POWERTITAN



ENERGY TRANSITION

Location

Theilheim, Germany

Systems

Ground mounted
1x SG3125HV-30
2x ST2752UX
20x PVS24MH

Expected production

6.7 GWh/year

Owner

SUNTEC Solarpark GmbH
& Co. VII KG

BENEFITS

There are 7,257 kWp bifacial 565 Wp PV modules installed, with tilt from 12° to 20° to go along with the hilly terrain and to maximize the yield, thanks also to the light reflected by the surrounding environment.

The solar park is divided into two sections separated by the A3 motorway, connected by cables running through a tunnel dug under the motorway, as the inverter and energy storage system lie together on the same side



** This picture shows the installation still being in process*

Two Sungrow PowerTitan ST2752UX storage systems and just one SC3125HV-30 inverter are installed in one section of the solar park

20 Sungrow smart combiner boxes collect all the cables coming from the PV strings



** This picture shows the installation still being in process*



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ABOUT SUNGROW

Sungrow is the world's most bankable inverter brand with over 405 GW installed worldwide as of June 2023. Founded in 1997 by University Professor Cao Renxian, Sungrow is a leader in the research and development of solar inverters with the largest dedicated R&D team in the industry and a broad product portfolio offering PV inverter solutions and energy storage systems for utility-scale, commercial & industrial, and residential applications, as well as internationally recognized floating PV plant solutions, NEV driving solutions, EV charging solutions and renewable hydrogen production systems. With a strong 26-year track record in the PV space, Sungrow products power over 150 countries worldwide.

ABOUT SUNTEC

As a regional trade company specialising in solar power, SUNTEC has always adhered to this vision since our foundation in 2003. For years, SUNTEC has been one of Bavaria's most successful project planners of PV systems and offer complete project management from planning and installation to commissioning and even beyond - all from a single source. With over 4500 realised projects, SUNTEC can draw on extensive know-how and expertise in the field of solar technology. In co-operation with various suppliers, SUNTEC offers the individual planning of the system and adapt it to the energy requirements and the respective area following a profitability analysis.